

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process cartridge comprising:

a frame body made up of at least first and second frame bodies that are movable relative to each other to form a space in an open state and to close the space in a closed state;

a frame body positioning member positioning the first and second frame bodies;

a latent image bearing member, supported by the frame body, and replaceable in the process cartridge in a first direction via the space formed by the first and second frame bodies;

a developing unit supplying a developing agent to the latent image bearing member, the developing unit configured to be replaceable in the process cartridge in the closed state in a second direction substantially perpendicular to the first direction via a space in the process cartridge different than the space formed by the first and second frame bodies and configured to be replaceable in the process cartridge in a state where the latent image bearing member is supported by the frame body; and

a developing position determining member, disposed at a non-overlapping position relative to the frame body positioning member, and positioning the developing unit with respect to the frame body.

Claim 2 (Original): The process cartridge as claimed in claim 1, wherein said developing unit comprises a developing agent bearing member transporting the developing agent, and a magnet group provided inside the developing agent bearing member, and having a predetermined main pole direction; and said developing position determining member comprises a positioning member positioning the latent image bearing member and the

developing agent bearing member, and an angular positioning member determining the main pole direction of the magnet group with respect to the latent image bearing member.

Claim 3 (Previously Presented): The process cartridge as claimed in claim 1, further comprising:

a cleaning unit cleaning residual toner on the latent image bearing member; and
a cleaning position determining member, disposed at a non-overlapping position relative to the frame body position determining member and the developing position determining member, and positioning the cleaning unit with respect to the frame body.

Claim 4 (Currently Amended): A process cartridge comprising:

a frame body made up of at least first and second frame bodies that are movable relative to each other to form a space in an open state and to close the space in a closed state;

a frame body positioning member positioning the first and second frame bodies;

a latent image bearing member, supported by the frame body, and replaceable in a first direction via the space formed by the first and second frame bodies;

a developing unit supplying a developing agent to the latent image bearing member, the developing unit configured to be replaceable in the closed state in a second direction substantially perpendicular to the first direction via a space different than the space formed by the first and second frame bodies; and

a developing position determining member, disposed at a non-overlapping position relative to the frame body positioning member, and positioning the developing unit with respect to the frame body;

a cleaning unit cleaning residual toner on the latent image bearing member; and

a cleaning position determining member positioning the cleaning unit with respect to the frame body,

said cleaning unit being replaceable via the space formed by the first and second frame bodies.

Claim 5 (Original): The process cartridge as claimed in claim 4, wherein:

said cleaning unit comprises a cleaning blade removing residual toner on at least the latent image bearing member, a bias roller controlling an amount of charge of the residual toner, and a recovery roller recovering toner adhered on the bias roller and the cleaning blade;

said cleaning position determining member comprises a blade positioning member positioning the cleaning blade with respect to the frame body, the bias roller and the recovery roller; and

said cleaning blade, said bias roller and said recovery roller are independently replaceable.

Claim 6 (Previously Presented): The process cartridge as claimed in claim 1, further comprising:

a charging unit uniformly charging the latent image bearing member,

said charging unit being positioned with respect to the frame body at a non-overlapping position relative to the frame body position determining member, the developing position determining member and a cleaning position determining member.

Claim 7 (Previously Presented): The process cartridge as claimed in claim 1, wherein at least one of the latent image bearing member, the cleaning unit, the charging unit and the

developing unit is replaced after removing the process cartridge from a main body of an image forming apparatus.

Claim 8 (Previously Presented): The process cartridge as claimed in claim 1, wherein the latent image bearing member is inserted with a driving shaft provided in a main body of an image forming apparatus.

Claim 9 (Original): The process cartridge as claimed in claim 8, wherein the frame body has a hole part for receiving the driving shaft.

Claim 10 (Previously Presented): The process cartridge as claimed in claim 1, wherein said frame body comprises a discharge unit and a detection unit.

Claim 11 (Original): The process cartridge as claimed in claim 10, wherein said discharge unit comprises an electroluminescence lamp.

Claim 12 (Previously Presented): The process cartridge as claimed in claim 10, wherein said detection unit comprises a potential sensor detecting a potential of the latent image bearing member, a toner density sensor detecting an amount of toner on the latent image bearing member, and a temperature and humidity sensor detecting a temperature and a humidity within the process cartridge.

Claim 13 (Previously Presented): The process cartridge as claimed in claim 1, wherein electrical wirings for external connection are connectable via one location of the process cartridge.

Claim 14 (Currently Amended): The process cartridge as claimed in claim 1, wherein said developing unit is ~~configured to use~~ packed with a toner having an average circularity in a range of 0.93 to 1.00.

Claim 15 (Currently Amended): The process cartridge as claimed in claim 1, wherein said developing unit is ~~configured to use~~ packed with a toner that has an average circularity in a range of 0.93 to 1.00 and a ratio of volume average particle size and a number average particle size in a range of 1.05 to 1.40.

Claim 16 (Currently Amended): The process cartridge as claimed in claim 1, wherein said developing unit is ~~configured to use~~ packed with a toner that has an average circularity in a range of 0.93 to 1.00 and is made up of roughly spherical particles with a ratio r_2/r_1 of a minor axis r_2 and a major axis r_1 in a range of 0.5 to 1.0, a ratio r_3/r_2 of a thickness r_3 and the minor axis r_2 in a range of 0.7 to 1.0, and satisfying a relationship $r_1 \geq r_2 \geq r_3$.

Claim 17 (Currently Amended): The process cartridge as claimed in claim 1, wherein said developing unit is ~~configured to use~~ packed with a toner that has an average circularity in a range of 0.93 to 1.00 and is made by subjecting a toner material solution to a cross linking reaction and/or an extension reaction within an aqueous medium, where the toner material solution is obtained by dissolving or dispersing, within an organic solvent, at least a polyester prepolymer having a functional group that includes nitrogen atoms, a polyester, a colorant and a mold releasing agent.

Claim 18 (Previously Presented): The process cartridge as claimed in claim 1, further comprising:

an accommodating part accommodating a toner or a newly supplied toner.

Claim 19 (Previously Presented): The process cartridge as claimed in claim 1, which is reusable by receiving a supply of toner.

Claim 20 (Original): The process cartridge as claimed in claim 19, further comprising:

an accommodating part accommodating a supplied toner.

Claim 21 (Previously Presented): An image forming apparatus for visualizing a latent image formed on a latent image bearing member into a toner image, comprising:

at least one detachable process cartridge according to claim 1,

at least one of the latent image bearing member and the developing unit being replaceable with respect to the process cartridge.

Claim 22 (Original): The image forming apparatus as claimed in claim 21, further comprising:

an accommodating part accommodating a supplied toner.

Claim 23 (Currently Amended): A process cartridge comprising:

a frame body made up of at least a first frame body and a second frame body that are movable relative to each other to form a space;

a latent image bearing member supported by the frame body and replaceable in a first direction via the space formed by the first and second frame bodies;

a developing unit supplying a toner to the latent image bearing member and configured to be replaceable in the process cartridge in a state in a second direction substantially perpendicular to the first direction where the latent image bearing member remains supported by the frame body;

a developing position determining member positioning the developing unit with respect to the frame body;

a cleaning unit cleaning the toner on the latent image bearing member and configured to be replaceable from the process cartridge;

a cleaning position determining member, disposed at a non-overlapping position relative to the developing position determining member, positioning the cleaning unit with respect to the frame body; and

a frame body positioning member, disposed at a non-overlapping position relative to the developing position determining member, and positioning the first and second frame bodies,

each of the developing unit and the cleaning unit is further configured to be positioned by only one of the first frame body or the second frame body.

Claim 24 (Original): The process cartridge as claimed in claim 23, wherein:

said developing unit comprises a developing agent bearing member transporting a developing agent, and a magnet group provided inside the developing agent bearing member and having a predetermined main pole direction; and

said developing position determining member comprises a positioning member positioning the latent image bearing member and the developing agent bearing member, and

an angular positioning member determining the main pole direction of the magnet group with respect to the latent image bearing member.

Claim 25 (Canceled).

Claim 26 (Original): The process cartridge as claimed in claim 23, wherein said cleaning unit is replaceable by removing the cleaning position determining member after the first and second frame bodies are moved relative to each other to form the space.

Claim 27 (Original): The process cartridge as claimed in claim 26, wherein:
said cleaning unit comprises a cleaning blade removing residual toner on at least the latent image bearing member, a bias roller controlling an amount of charge of the residual toner, and a recovery roller recovering toner adhered on the bias roller and the cleaning blade;
said cleaning position determining member comprises a blade positioning member positioning the cleaning blade with respect to the frame body, the bias roller and the recovery roller; and
said cleaning blade, said bias roller and said recovery roller are independently replaceable.

Claim 28 (Previously Presented): The process cartridge as claimed in claim 23, further comprising:
a charging unit uniformly charging the latent image bearing member,
said charging unit being positioned with respect to the frame body at a non-overlapping position relative to the frame body position determining member, the developing position determining member and the cleaning position determining member.

Claim 29 (Previously Presented): An image forming apparatus for visualizing a latent image formed on a latent image bearing member into a toner image, comprising:

at least one detachable process cartridge according to claim 23,

at least one of the latent image bearing member, the developing unit and the cleaning unit being replaceable with respect to the process cartridge.

Claim 30 (Original): The image forming apparatus as claimed in claim 29, further comprising:

an accommodating part accommodating a supplied toner.

Claim 31-32 (Cancelled).

Claim 33 (Currently Amended): A process cartridge configured to be detachable with respect to an image forming apparatus, comprising:

a frame body made up of at least first and second frame bodies that are movable relative to each other to form a space in an open state and to close the space in a closed state;

a latent image bearing member supported by the frame body and replaceable in a first direction; and

at least one process unit provided integrally with the latent image bearing member and supported by the frame body, the at least one process unit configured to be replaceable in the process cartridge in the closed state in a second direction substantially perpendicular to the first direction via a space in the process cartridge different than the space formed by the first and second frame bodies and configured to be replaceable in the process cartridge in a state where the latent image bearing member is supported by the frame body,

the latent image bearing member and the at least one process unit being independently replaceable,

wherein a cleaning unit forms one process unit.

Claim 34 (Original): The process cartridge as claimed in claim 33, wherein the latent image bearing member and the at least one process unit are replaceable without requiring other process units to be removed.

Claim 35 (Previously Presented): The process cartridge as claimed in claim 33, wherein the latent image bearing member and the at least one process unit is replaced after removing the process cartridge from the image forming apparatus.

Claim 36 (Previously Presented): The process cartridge as claimed in claim 33, wherein the latent image bearing member is removable from the frame body without requiring the at least one process unit to be removed from the frame body.

Claim 37 (Previously Presented): The process cartridge as claimed in claim 33, wherein the latent image bearing member is removed from the frame body after rotating the cleaning unit.

Claim 38 (Original): The process cartridge as claimed in claim 37, further comprising:

a cleaning position determining member positioning the cleaning unit with respect to the frame body.

Claim 39 (Previously Presented): The process cartridge as claimed in claim 37, wherein said cleaning unit comprises a coating mechanism including a coating roller and a lubricant body, said coating mechanism coating a lubricant on the latent image bearing member.

Claim 40 (Original): The process cartridge as claimed in claim 39, wherein said cleaning unit comprises a cleaning blade, and said lubricant body is replaceable.

Claim 41 (Previously Presented): The process cartridge as claimed in claim 33, further comprising:

a charging unit forming one process unit,
wherein said frame body includes a recess that receives the charging unit.

Claim 42 (Previously Presented): The process cartridge as claimed in claim 33, further comprising:

a developing unit; and
a developing positioning member positioning the developing unit with respect to the frame body.

Claim 43 (Original): The process cartridge as claimed in claim 42, wherein said developing position determining member positions a developing reference shaft of the developing unit with respect to a hole in the frame body forming a bearing.

Claim 44 (Previously Presented): The process cartridge as claimed in claim 33, wherein said latent image bearing member receives a driving shaft of the image forming apparatus when the process cartridge is loaded into the image forming apparatus.

Claim 45 (Original): The process cartridge as claimed in claim 44, wherein said frame body includes a hole forming a bearing and receiving the driving shaft of the image forming apparatus.

Claim 46 (Previously Presented): The process cartridge as claimed in claim 33, further comprising:

- a discharge unit provided on the frame body; and
- a detection unit provided on the frame body.

Claim 47 (Original): The process cartridge as claimed in claim 46, wherein said detection unit comprises a potential sensor detecting a potential of the latent image bearing member, a toner density sensor detecting an amount of toner on the latent image bearing member, and a temperature and humidity sensor detecting a temperature and a humidity within the process cartridge.

Claim 48 (Previously Presented): The process cartridge as claimed in claim 33, further comprising:

- an accommodating part accommodating a toner or a newly supplied toner.

Claim 49 (Previously Presented): The process cartridge as claimed in claim 33, which is reusable by receiving a supply of toner.

Claim 50 (Original): The process cartridge as claimed in claim 49, further comprising:

an accommodating part accommodating a supplied toner.

Claim 51 (Previously Presented): An image forming apparatus for visualizing a latent image formed on a latent image bearing member into a toner image, comprising:

at least one detachable process cartridge according to claim 33,

at least one of the latent image bearing member, a developing unit and a cleaning unit being replaceable with respect to the process cartridge.

Claim 52 (Original): The image forming apparatus as claimed in claim 51, further comprising:

an accommodating part accommodating a supplied toner.